



***Leelumnus radium*, a new genus and species of pilumnid crab
from marine encrusting communities in Singapore
(Crustacea: Decapoda: Brachyura: Pilumnidae)**

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Abstract

A new genus and new species of pilumnid crab is described from marine encrusting communities in Singapore. *Leelumnus* **gen. nov.** is morphologically similar to *Latopilumnus* Türkay & Schuhmacher, 1985, and *Aniptumnus* Ng, 2002, in the general shape of the carapace, chelipeds, ambulatory legs and morphology of the male thoracic sternum, but can be distinguished by the morphologies of the front and anterolateral margin of the carapace, as well as the unique structure of the male first gonopod. Only the type species, *L. radium* **sp. nov.** is currently assigned to the new genus.

Keywords: Pilumnoidea, new genus, new species, taxonomy, Singapore

Introduction

During an ongoing study on the diversity of marine encrusting communities in Singapore by the Tropical Marine Science Institute, National University of Singapore, several species of brachyurans were collected from buoys, channel markers and other floating and semi-submerged structures. Among these were several specimens of an unusual pilumnid crab which superficially resembled species of *Latopilumnus* Türkay & Schuhmacher, 1985, and *Aniptumnus* Ng, 2002, but differed in a number of key features. The purpose of the present study is to describe these specimens as a new genus and new species of Pilumnidae.

The following abbreviations are used: G1 = male first gonopod; G2 = male second gonopod; P3 = third pereopod (second ambulatory leg); P5 = fifth pereopod (fourth ambulatory leg). Measurements recorded (in millimeters) are of the carapace width and length, respectively. The specimens examined are deposited in the Nationaal Natuurhistorisch Museum (The Naturalis), Leiden (RMNH); The Natural History Museum, London (NHM); and the Zoological Reference Collection, Raffles Museum of Biodiversity Research, National University of Singapore (ZRC). The classification used follows that of Ng *et al.* (2008).

Taxonomic account

Family Pilumnidae Samouelle, 1819

Subfamily Pilumninae Samouelle, 1819